Performance Data Sheet

RGA5479BXD

General Information

Model	RGA5479BXD	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2450	2410					
	Watts	429	454					
	Amps	2.00	2.11					
	Lb/h	32.2	31.3					
-10	Btu/h	2880	2780	2680				
	Watts	443	471	500				
	Amps	2.08	2.21	2.34				
	Lb/h	36.7	35.6	34.5				
-5	Btu/h	3360	3210	3050	2890			
	Watts	454	487	520	553			
	Amps	2.14	2.29	2.44	2.59			
	Lb/h	41.8	40.5	39.2	37.8			
0	Btu/h	3890	3680	3470	3250	3030		
	Watts	462	499	536	574	612		
	Amps	2.18	2.35	2.52	2.69	2.87		
	Lb/h	47.5	46.0	44.5	42.9	41.2		
5	Btu/h	4480	4210	3940	3660	3390		
	Watts	467	509	550	592	634		
	Amps	2.22	2.40	2.59	2.78	2.97		
	Lb/h	53.9	52.2	50.4	48.6	46.7		
10	Btu/h	5120	4790	4460	4130	3790	3460	3120
	Watts	470	516	561	607	654	701	748
	Amps	2.23	2.44	2.64	2.85	3.06	3.26	3.48
	Lb/h	60.8	58.9	56.9	54.9	52.8	50.6	48.4
15	Btu/h	5820	5430	5040	4650	4250	3860	3460
	Watts	470	520	570	620	671	722	773
	Amps	2.24	2.46	2.68	2.90	3.13	3.36	3.58
	Lb/h	68.4	66.2	64.0	61.8	59.4	57.0	54.6
20	Btu/h	6580	6120	5670	5220	4760	4310	3850
	Watts	468	522	576	631	685	741	796
	Amps	2.23	2.47	2.70	2.95	3.19	3.43	3.68
	Lb/h	76.6	74.2	71.7	69.2	66.7	64.1	61.4

25	Btu/h	7390	6880	6360	5850	5330	4820	4300
	Watts	463	521	580	638	697	757	817
	Amps	2.21	2.46	2.72	2.97	3.23	3.49	3.76
	Lb/h	85.4	82.8	80.1	77.4	74.6	71.7	68.8
30	Btu/h	8260	7680	7110	6530	5960	5380	4810
	Watts	456	518	581	644	707	770	834
	Amps	2.17	2.44	2.72	2.99	3.27	3.54	3.82
	Lb/h	94.9	92.0	89.1	86.1	83.1	80.0	76.9
35	Btu/h	9190	8550	7920	7280	6640	6000	5370
	Watts	446	512	579	646	714	782	850
	Amps	2.13	2.41	2.70	2.99	3.29	3.58	3.88
	Lb/h	105	102	98.6	95.4	92.2	88.9	85.5
40	Btu/h	10200	9480	8780	8080	7380	6680	5980
	Watts	434	504	576	647	718	790	863
	Amps	2.07	2.37	2.68	2.99	3.30	3.61	3.92
	Lb/h	116	112	109	105	102	98.4	94.8
45	Btu/h	11200	10500	9710	8940	8180	7420	6660
	Watts	419	494	569	645	721	797	873
	Amps	2.00	2.32	2.64	2.97	3.29	3.62	3.95
	Lb/h	127	123	120	116	112	108	105
50	Btu/h	12400	11500	10700	9870	9040	8220	7390
	Watts	402	481	561	640	720	801	881
	Amps	1.92	2.26	2.60	2.94	3.28	3.62	3.97
	Lb/h	139	135	131	127	123	119	115
55	Btu/h	13500	12600	11700	10900	9970	9080	8190
	Watts	383	466	550	634	718	802	887
	Amps	1.84	2.19	2.54	2.90	3.26	3.61	3.97
	Lb/h	152	148	143	139	135	131	126

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.578277E+03	1.692049E+02	8.507296E-01	5.861963E+01
C2	2.079759E+02	-5.511845E+00	-2.050998E-02	1.587899E+00
C3	-2.108204E+01	3.667413E+00	1.670962E-02	-1.406210E-01
C4	1.161907E+00	-5.249856E-02	-2.629680E-04	1.290278E-02
C5	-1.217296E+00	8.647525E-02	3.519573E-04	-5.041031E-03
C6	3.024189E-03	-7.278970E-04	-3.018325E-06	1.435297E-04
C7	1.363652E-03	5.170480E-05	7.029862E-07	5.430795E-06
C8	-1.127663E-03	-1.225882E-05	-3.934606E-07	-8.556206E-06
C9	2.461705E-04	-8.677239E-06	2.018251E-08	3.467211E-06
C10	-3.328098E-05	7.534166E-06	3.089445E-08	-1.482966E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature